

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (original): A method for forming a plastic lens convex on one side and concave on the other side and having its maximum thickness in the central region of the lens and diminishing gradually in thickness radially towards the periphery of the lens, the method comprising the steps:

providing a lens blank of substantially uniform thickness comprising at least one layer of a thermoplastic material;

placing said lens blank between opposed concave and convex platens for forming, respectively, convex and concave surfaces on said lens blank, said concave platen holding a volume of a polymerizable composition comprising a monomer or an oligomer on a forming surface thereof, and wherein the radius of curvature of said convex platen and the radius of curvature of said concave platen correspond, respectively, to the relationship;

$$r_1 + r_2 = t \left(\frac{n-1}{n} \right)$$

heating and pressing said platens together with said lens blank therebetween, said heating and pressing being sufficient to deform said lens blank and to cause polymerization of said polymerizable composition to take place to provide a layer of non-uniform thickness on the convex surface on said deformed lens blank, said layer of non-uniform thickness having maximum thickness in its central region and diminishing gradually in thickness radially towards the periphery of said layer, whereby there is formed a shaped lens, concave on one side and convex on the other,

said lens having its maximum thickness in the central region thereof and diminishing gradually in thickness radially towards the periphery of said lens; and
removing said shaped lens from between said platens.

Claim 2 (original): The method as defined in Claim 1 wherein said lens blank comprises a layer of a light polarizing material arranged between and bonded to each of first and second layers of thermoplastic material.

Claim 3 (original): The method as defined in Claim 2 wherein said first layer of thermoplastic material comprises cellulose acetate butyrate or cellulose triacetate and said second layer of thermoplastic material comprises polycarbonate, and wherein said second layer forms said concave surface of said lens.

Claim 4 (currently amended): The method as defined in Claim 2 wherein said first layer of thermoplastic material comprises cellulose acetate butyrate or cellulose triacetate and said second layer of thermoplastic material comprises a colored layer of polycarbonate and a clear layer of polycarbonate having an outer layer of a high ~~seatch~~ scratch-resistant material, and wherein said clear layer of polycarbonate forms said concave surface of said lens.

Claim 5 (original): The method as defined in Claim 4 wherein said light-polarizing layer is positioned closer to said convex surface of said lens than to said concave surface of said lens.

Claim 6 (original): The method as defined in Claim 1 wherein said polymerizable composition comprises a mixture of tetraethylene glycol dimethacrylate and dipentaerythritol pentacrylate.

Claims 7 – 11 (canceled).